

DERWENT-ACC-NO: 1993-172816

DERWENT-WEEK: 199321

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TITLE: Fine grained nickel@powder mfr. used as
electroconductive fillers by pyrolysing nickel formate
anhydride obtd. from soln. in non-oxidising atmos. or
under reduced pressure to obtain nickel@powder

INVENTOR: HIDAKA T; KAWAKAMI T ; MAKINOSE A

PATENT-ASSIGNEE: MITSUBISHI GAS CHEM CO INC[MITN]

PRIORITY-DATA: 1991JP-298455 (October 17, 1991)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
JP 05105922 A	April 27, 1993	JA

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP 05105922A	N/A	1991JP-298455	October 17, 1991

INT-CL-CURRENT:

TYPE	IPC	DATE
CIPP	B22F9/30	20060101

ABSTRACTED-PUB-NO: JP 05105922 A

BASIC-ABSTRACT:

Mfr. comprises pyrolysing Ni formate anhydride obtd. directly from soln. in a non-oxidising atmos. or under reduced pressure at 160 - 300 deg. C to obtain Ni powder composed of prim. grains 50 - 300 nm in dia., 2 - 20 m²/g in specific surface area, and comprising powder aggregate 5,000 nm, or less in dia.

The Ni formate anhydride is pref. obtd. by reacting a Ni cpd., at least one selected from Ni carbonate, Ni hydroxide, and Ni oxide, with formic acid or Me formate; or it is obtd. by pptn. from a formic acid soln. of Ni formate. The pyrolysis is conducted at a heating rate of 0.5 - 20 deg.C/min.

USE/ADVANTAGE - For use as electroconductive fillers of paints, pastes, resins, etc., catalysts, magnetic alloys, binders of cemented carbide, and in powder

metallurgy

TITLE-TERMS: FINE GRAIN NICKEL@POWDER MANUFACTURE ELECTROCONDUCTING
FILL

PYROLYSE NICKEL FORMATE ANHYDRIDE OBTAIN SOLUTION NON OXIDATION
ATMOSPHERE REDUCE PRESSURE

DERWENT-CLASS: A60 G02 J04 L03 M22 P53

CPI-CODES: A08-M09A; A08-R05; A09-A03; G01-A12; J04-E04; L03-B02A4; M22-H01;
N02-C01;

CHEMICAL-CODES:

Chemical Indexing M3 *01*

Fragmentation Code

A428 C810 M411 M730 Q421

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0246S; 0826S ; 1925S ; 1931S

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0123 0228 2199 2201 2207 2218 2220 2370 2551 2718 2792

Multipunch Codes: 03& 07- 15- 18& 236 250 308 310 360 385 477 506 509 654 656
721 724 726

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: 1993-077200

Non-CPI Secondary Accession Numbers: 1993-132574